Spallation Neutron Source

CF Controls Overview/Navigational Screens Functional System Design (FSD)

January, 2003

SNS Project Engineer

Overview/Navigational Screens Description TD00003 Rev 0; January 13, 2003

CF Controls screens are arranged in a hierarchy with several layers.

The top layer contains a site overview screen and the alarm handler screen. These are the first two screens in this document.

All screens can be accessed by starting at the Site Overview screen. Also, each screen has buttons that will present the Site Overview or the Alarm Handler screen. This insures that access to these screens is always available so that alarms may be viewed at any time and starting the navigation process through the layers can begin at any time. The Site Overview screen has buttons to select building overview screens and system overview screens – which comprise the second layer. These screens in turn have buttons to select screens in the third layer and so forth.

System overview screens are displayed first in this document, building overview screens afterward. The power system button displays a menu of power overview screens that are available. Two CUB overview screens are provided. One shows the swing cell valved to the condenser water system and one to the tower water system. The screen appropriate to the valving selected is what is displayed. Note that Linac and Ring Makeup Air Handler and Linac tunnel Air handler screens are accessed from the tunnel operation screens – not the Klystron building or Ring service building overview screens.

As screens are selected, previously selected screens will not be closed automatically. Each screen has a Close button that will close the screen. (If all previously selected screens are closed, the Site Overview button on the displayed screen should be used to return to the Site Overview screen and begin navigating the hierarchy again). Leaving previously selected screens open will show the path taken from the Site Overview screen. Thus reversing this path can be accomplished by selecting one of the previously selected screens.

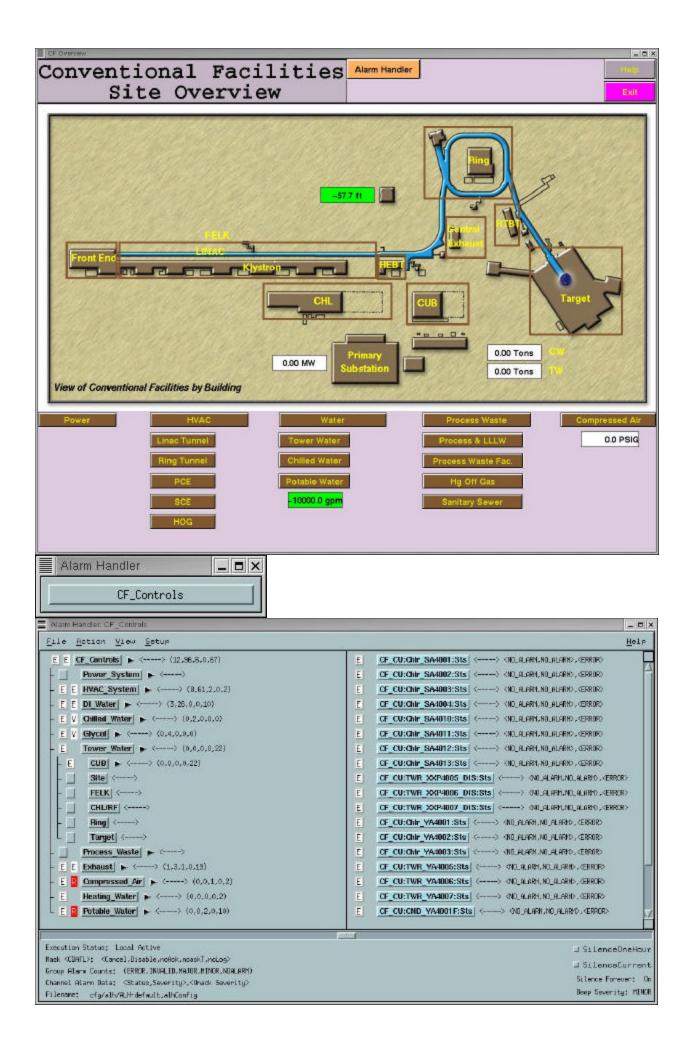
Most of the lower layers have multiple screens. In some of these layers it is desirable to navigate between the screens within a layer. In some cases, Previous Screen and Next Screen buttons are provided to step through screens in a layer. Also in some cases a menu button is provided. Pointing to the menu button will show a listing of all screens in the layer. A screen may be selected from the menu.

Seldom will a menu button be provided on a screen in one layer that will show screens in a lower layer. Buttons will be provided for screens in the next lower layer. Access to screens in a lower layer is provided by selecting one of the screens in that layer and then navigating horizontally with the Previous Screen, Next Screen, or menu buttons provided.

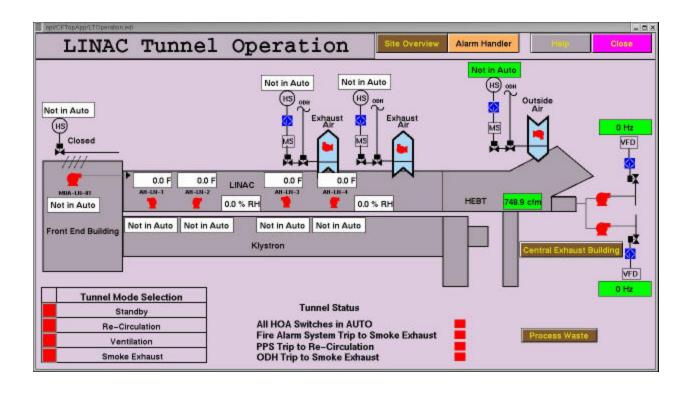
The screens below are those provided for the top two layers. Target building overview screens have not been constructed at this time. They will be added in the near future.

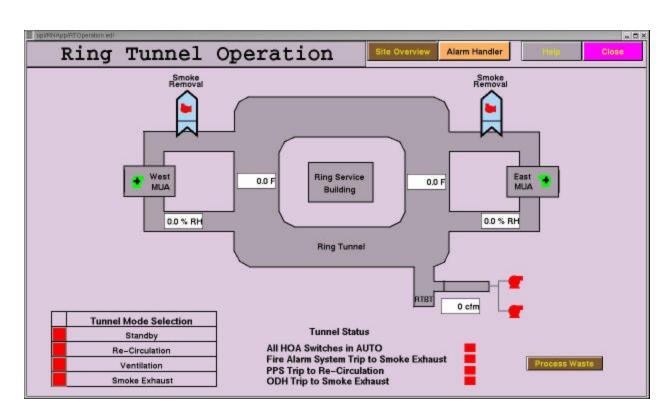
Several links have been provided to show a demonstration of how this navigation works. Since Acrobat does not leave previously selected screens open like EPICS will, this feature is not demonstrated. Also, Acrobat does not allow demonstrating the menu button feature. Links are shown as visible rectangles so that they may be found easily. These rectangles will not appear on EPICS screens.

It is intended that these screens be used as "comfort" screens by being displayed at all times and other information obtained by navigation screens on lower layers.



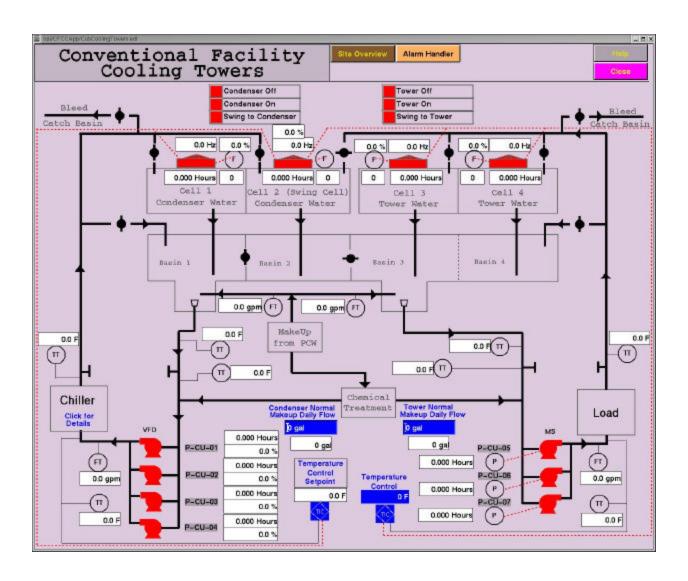
System Overview Screens

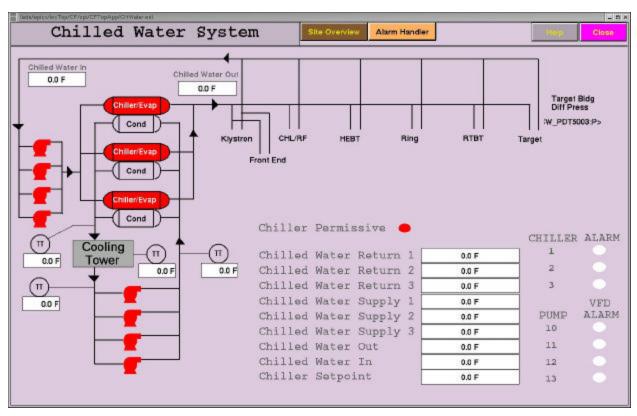


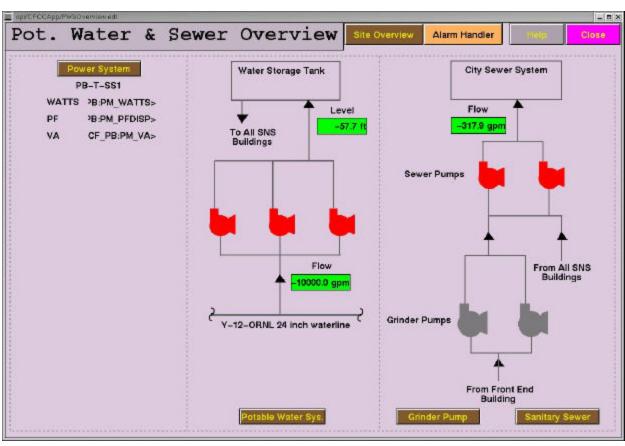


Target Building HVAC Overview Screens (under construction)

- Primary Containment Exhaust (PCE)
- Secondary Containment Exhaust (SCE)
- Hot Off Gas (HOG)

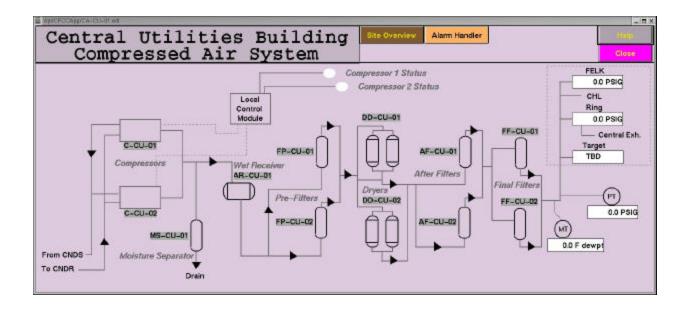




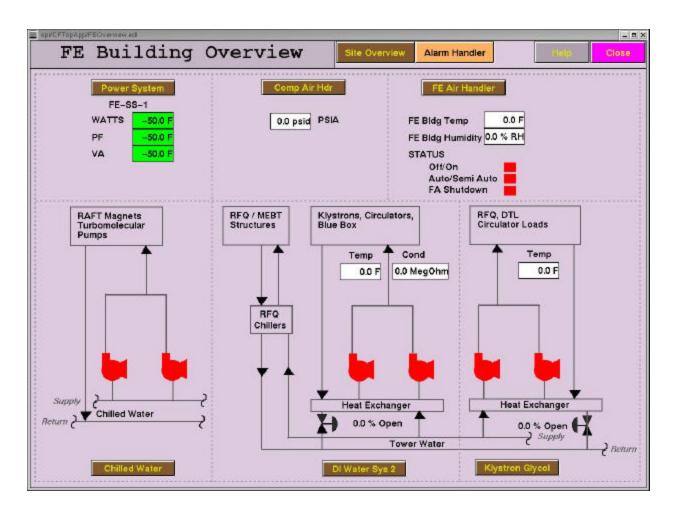


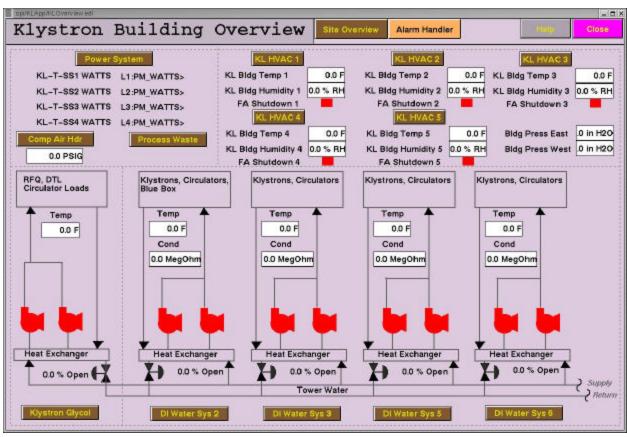
Process Waste Overview Screens (under construction)

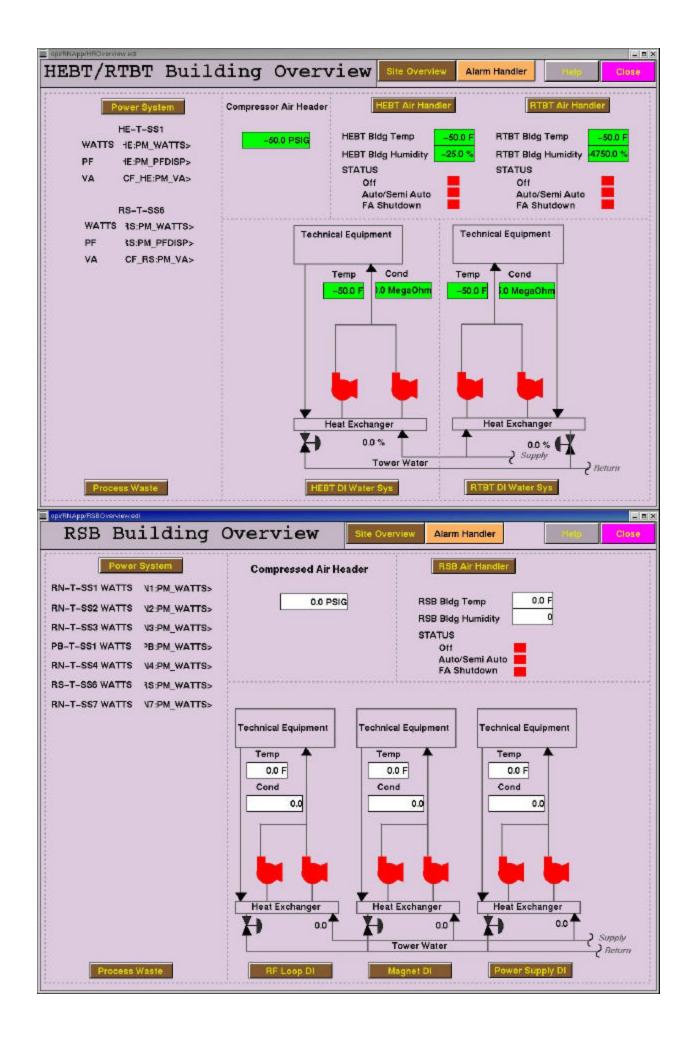
- Process & LLLW Overview
- Process Waste Facility Overview
- Hg Off Gas

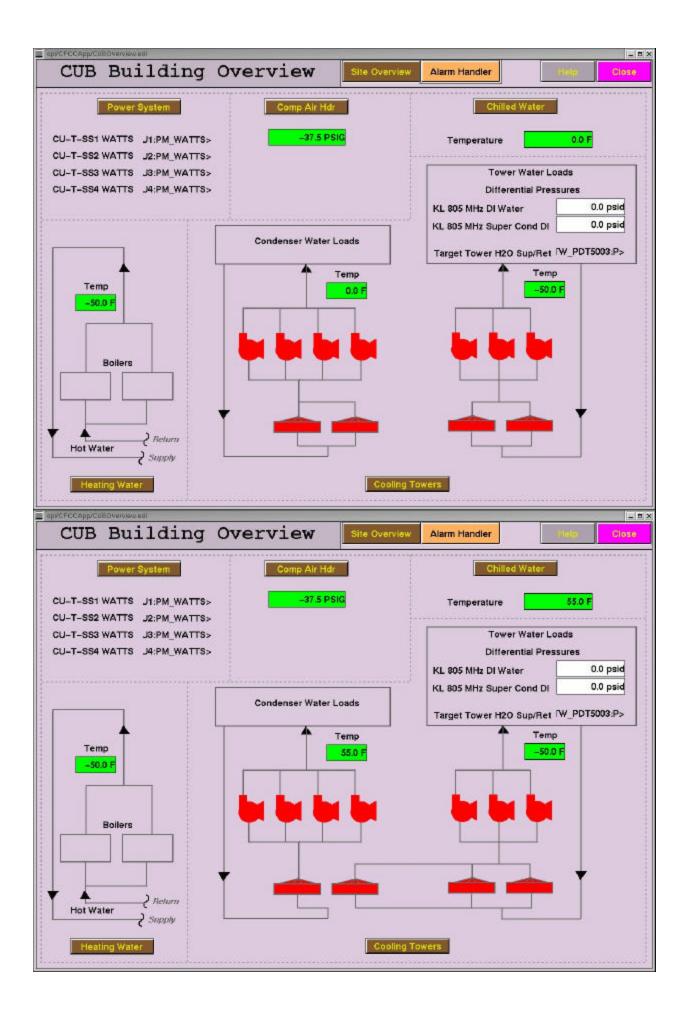


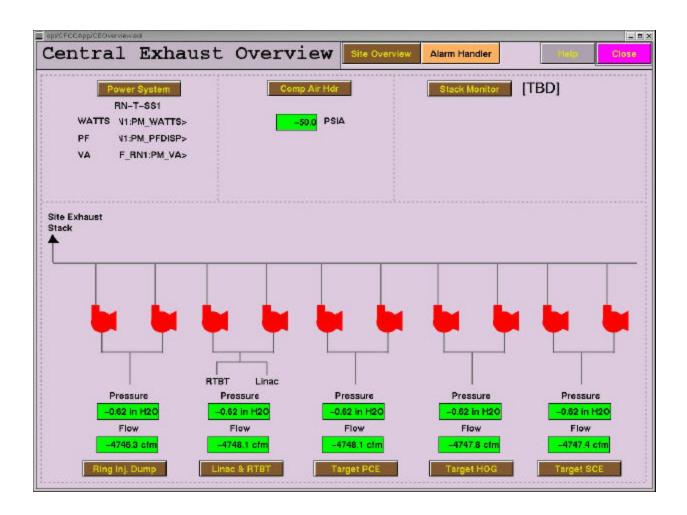
Building Overview Screens











Target Building Overview (under construction)